RPR File

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CLAIMS

A process for purifying double-stranded DNA, comprising 1. using ceramic hydroxyapatite column chromatography.

- A process for purifying double-stranded DNA, comprising 2. using two chromatographic steps, of which one is ceramic hydroxyapatite column chromatography.
- The process according to claim 2, further comprising using 3. affinity chromatography or ion exchange chromatography. 10
 - The process according to claim 3, wherein the affinity 4. chromatography involves triple helix formation between the DNA and an immobilized oligonucleotide.
- The process according to claim 3, wherein the ion exchange 5. chromatography is anion exchange chromatography. 15
 - The process according to claim 1, further comprising a step of 6. diafiltration.
 - The process according to claim 2, further comprising a step of 7. diafiltration.
- The process according to claim 3, further comprising a step of 8. 20 diafiltration.
 - The process according to claim 4, further comprising a step of 9. diafiltration.
 - The process according to claim 5, further comprising a step of 10. diafiltration.
 - A process for purifying double-stranded DNA, comprising 11. chemical lysing of cells,

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using ceramic hydroxyapatite column chromatography, and using affinity chromatography involving triple helix formation between the DNA and an immobilized oligonucleotide.

- The process according to claim 1, wherein the double-stranded 12. 5 DNA is a plasmid. The process according to claim 2, wherein the double-stranded 13. DNA is a plasmid. The process according to claim 3, wherein the double-stranded 14. DNA is a plasmid. 10 The process according to claim 4, wherein the double-stranded 15. DNA is a plasmid. The process according to claim 5, wherein the double-stranded 16. DNA is a plasmid. The process according to claim 6, wherein the double-stranded 17. 15 DNA is a plasmid. The process according to claim 7, wherein the double-stranded 18. DNA is a plasmid. The process according to claim 8, wherein the double-stranded 19. DNA is a plasmid. 20 The process according to claim 9, wherein the double-stranded 20. DNA is a plasmid. The process according to claim 10, wherein the double-stranded 21. DNA is a plasmid. The process according to claim 11, wherein the double-stranded 22. 25
 - DNA is a plasmid.

 23. A purified recombinant plasmid DNA composition, comprising a chromosomal DNA content that is less than or equal to 0.01%.

24. A purified recombinant plasmid DNA composition according to claim 23, comprising a content of endotoxin that is less than or equal to 50 EU/mg.

25. The purified recombinant plasmid DNA composition according to claim 24, wherein the content of endotoxir is less than or equal to 10 EU/mg.

26. A composition comprising DNA obtained according to claim 1